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## Nanoparticle Ag-enhanced textured-powder Bi-2212/Ag wire technology

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A new approach to the preparation of cores for Bi-2212/Ag wire is being developed. Nanoparticle Ag is homogeneously dispersed in Bi-2212 fine powder, and the mixture is uniaxially compressed to form highly textured, cold-sintered core rods. The rods can be assembled with a Ag matrix and drawn to form multifilament wire. Preliminary studies using tablet geometry demonstrate that a non-melt heat treatment produces densification, grain growth, intergrowth among grains, and macroscopic current transport. The status of the development is reported.

**Primary author:** MCINTYRE, Peter (Texas A&M University)

**Co-authors:** Mr VANDERGRIFT, Jacob (Texas A&M University); Mr KELLAMS, Joshua (Texas A&M University); Dr POGUE, Nathaniel (PSI)

**Presenter:** Mr KELLAMS, Joshua (Texas A&M University)

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